



CALL FOR ABSTRACTS

SUBMISSION DEADLINE: 15.10.21

Conference to be held: 30 - 31 March, 2022 - Perth, Western Australia

MARINE AUTONOMY FOR A SUSTAINABLE FUTURE

Our oceans are subject to many varied pressures through increasing use of ocean resources and human-driven environmental change. Addressing challenges for the marine environment as we look to the future will require a coordinated, collaborative and dedicated effort involving researchers, government, industry and the wider community. To aid with future sustainability and environmental protection, marine autonomous technology can play a key role.

In recent years the pace of progress in the marine autonomous technology field has been substantial, with new technologies and systems enabling improved reliability, endurance and functionality that previously was unimagined. Advances in battery, communication and payload technology has driven the value and capability of autonomous systems and broadened its scope from the traditional defence and oil and gas markets to new opportunities such as fisheries, water management, renewables, habitat mapping and environmental monitoring, all of which are directly improving our knowledge of the wider health of the marine environment.

To acknowledge advances in all marine sectors, the Australian Hydrographic Society and the Society for Underwater Technology are once again facilitating the Autonomous Underwater Technology Conference that aims to demonstrate these new applications and different technologies along with supporting the ongoing experiences of the traditional acquisition of in-water data.

This long running and well reputed conference continues to be one of the most globally important knowledge centre and networking opportunities in this field, allowing contact between defence, industry and research specialists.

ABSTRACTS SHOULD INCLUDE:

1. Title of abstract
2. List of authors (with presenting author noted), stating title, first name, surname, job title and organisation represented
3. The abstract should be 200 words or less conveying the work presented and the results obtained (Microsoft Word format)
4. Full postal address and telephone number (for admin use only).

Please note we are looking for technical based presentations only (no technical papers required). 'Sales biased' presentations will not be accepted.

ABSTRACT TOPICS

Abstracts are sought for this conference, based on recent advances and case studies pertinent to Autonomous Underwater Technology (AUT). Topics could include (but are not limited to):

- Challenges for marine renewable energy technology assets and the role of autonomous and robotic marine systems
- Technology advances in areas such as positioning, control, communications, power and payload
- Autonomous or remote controlled over-water, on-water and in-water data gathering and monitoring technologies – future vision for autonomous ocean observations
- Latest developments in autonomous system policies and governance
- Oceanographic and environmental applications
- Fisheries and water management applications
- Pipeline Inspection and contactless CP by AUV
- Hydrocarbon detection and mapping
- Subsea Wireless Mesh Networking.
- Swarming technologies and algorithms
- Launch/recovery systems
- AUV Simulation
- Advances in geotechnical data gathering using robotic drilling techniques
- The role of AUT in subsea intervention and IMR applications
- Military and security applications using AUT
- Search & Rescue using remote or automated technologies
- Other development and research advancements including from other industries with applicability in the marine environment.

ABSTRACT SUBMISSION AND CONTACT INFORMATION

For abstract submission, sponsorship & exhibition enquiries, please contact SUT – Perth Branch. Tel: +61 (0) 8 9481 0999
Email: perthevents@sut.org

Abstract Submission deadline **15 OCTOBER 2021**

Selected Authors will be notified by: **22 NOVEMBER 2021**